

SECTION 504 -- TACK COAT

504.01 -- Description

Tack coat is the application of asphaltic materials to bases or surfacing. The tack coat shall be applied to surfaces on which bituminous materials will be placed. When specified, tack coat will be applied on other surfaces.

504.02 -- Material Requirements

The type and grade of asphaltic materials shall be specified in the plans and shall conform to the requirements in Sections 1031 or 1032.

504.03 -- Construction Methods

1. Before the application of tack coat, the surface shall be cleaned as prescribed in Section 501.

2. The Contractor shall furnish and apply the tack coat.

3. a. An approved pressure distributor shall be used at the rate designated by the Engineer. Uniform application is required. Hand sprayers may be used in applying tack coat to small or irregular sections.

b. Emulsified asphalt shall be diluted in the distributor with sufficient potable water to reduce the asphalt content in the mixture to approximately 30 percent of the total volume. (Usually, emulsified asphalt is supplied at 60 percent residual asphalt and 40 percent water. The addition of an equal volume of water will produce an emulsion with 30 percent residual asphalt.)

c. The rate of application of the 30 percent residual asphalt shall be adequate to bond the new bituminous layer to the existing surface. This generally will be from 0.10 to 0.20 Gal/SY when applied to existing or milled surfaces and from 0.05 to 0.10 Gal/SY when applied to the freshly laid asphaltic concrete.

4. The Contractor shall furnish and apply a tack coat to seal surfaces and prevent infiltration of moisture when construction will be interrupted by weather and the project is shut down for the winter.

504.04 -- Method of Measurement

Tack coat shall be measured in gallons of diluted (field and refinery) solution applied to the surface.

504.05 -- Basis of Payment

| 1. Pay Item | Pay Unit |
|--------------------|-----------------|
| Tack Coat | Gallons (Gal) |

2. When materials do not meet plan and specification requirements, deductions will be made according to Table 503.01.

3. Water used to dilute emulsified asphalt is subsidiary to "Tack Coat" and is included in the solution (30 percent emulsified asphalt and 70 percent water) that is placed and measured for payment.

4. Payment is full compensation for all work prescribed in this Section.